

S/103/62/023/002/005/015
D230/D301

A method of calculating complex ...

found first; for this purpose another method is developed with which real roots can be found using simulators. The existence of only one scale considerably improves the root determination accuracy. The time taken to evaluate all complex roots of the form of function above was 20 min. The more important circuit parameters are considered in detail. The method is exemplified on a number of typical and special cases for which the maximum errors are of the order of 9 % for the real part, and 10 % for the imaginary part. There are 10 references: 7 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: M. Scherberg, J. Riordan, Mathematic Tables and Other Aids to Computation, vol. VII, no. 41, January 1953; R. Serrell, E. Goldberg, Polynomial Equation Solver, Radio Corporation of American Office Gazette, vol. 666 no. 3. ix

SUBMITTED: June 31, 1961

Card 2/2

KOSAREV, A.A. (Voronezh); MARTYNOV, A.V. (Voronezh); YAKUNINA, L.I. (Voronezh)

Concerning a certain method for calculating the complex roots of algebraic equations using simulating systems [with summary in English]. Avtom. i telem. 23 no.2:163-168 F '62. (MIRA 15:2)
(Electronic calculating machines)(Equations, Roots of)

YAKUNINA, L.N.

Cyst of the external meniscus of the knee joint. Zdravookhranenie
4 no. 2:59-60 My-Ap '61. (MIRA 14:4)

1. Iz travmatologicheskogo otdeleniya Respublikanskoy klinicheskoy
bol'nitsy (glavnyy vrach T.V. Moshnyaga).
(KNEE—TUMORS)

GLADYREVSKIY, N.L.; YAKUNINA, L.N.

Intravenous injection of a novocaine solution for controlling the pain syndrome in patients with injuries. Zdravookhranenie 4 no.4: 50-54 J1-Ag '61. (MIRA 14:11)

1. Iz kafedry obshchey khirurgii (zav. - prof. N.L.Gladyrevskiy) Kishinevskogo meditsinskogo instituta i 1 khirurgicheskogo otdeleniya Respublikanskoy klinicheskoy bol'nitsy (glavnyy vrach T.V.Moshnyaga).

(NOVOCAINE—THERAPEUTIC USE) (PAIN)

YAKUNINA, L.N.

Primary plastic surgery of traumatic defects of the dura mater
using heterogenous preserved peritoneum. Zdravookhranenie 5
no.1:58-59 Ja-F '62. (MIRA 15:4)

1. Iz kafedry obshchey khirurgii (zav. professor N.L.Gladyrevskiy)
Kishinevskogo meditsinskogo instituta i Respublikanskoy klinicheskoy
bol'nitsy (glavnyy vrach T.V.Moshnyaga).

(PERITONEUM--TRANSPLANTATION)

(DURA MATER--SURGERY)

BALABAN, M.B. (Kishinev, Podol'skaya ul., d.80); YAKUNINA, L.N.

Hip osteotomy in melorheostosis. Ortop. travm. i protez.
24 no.2:65-66 F'63. (MIRA 16:10)

1. Iz kafedry obshchey khirurgii (zav. - prof. N.L.Gladyrevskiy)
i kafedry rentgenologii i radiologii (zav. - dotsent A.P.
Burkalov) Kishinevskogo meditsinskogo instituta na baze Res-
publikanskoy klinicheskoy bol'nitsy.

*

YAKUNINA, I. S.

SOV/124-58-4-4710

Translation from: Referativnyy zhurnal, Mekhanika, 1958. Nr 4, p 148 (USSR)

AUTHORS: Mikhaylov, V. V., Yakunina, I. S.

TITLE: Inclusion of Deck Reaction to Traffic Into That of the Principal Framework of Metal Through Bridges (Vklyucheniye proyezzhev chasti metallicheskikh mostov pri yezde po nizu "rabotu glavnykh ferm)

PERIODICAL: Sb. stud. nauchn. rabot Saratovsk. avtomob-dor. inst, 1957. Nr 3, pp 29-32

ABSTRACT: Bibliographic entry

1. Bridges--Trafficability

Card 1/1

Исследования, изв.
SERGEYEVA, V.F.; SLENDER, V.V.; YAKUNINA, M.N.

Extraction of copper from ores oxidized with sulfur dioxide in
sodium chloride solutions ("Sulfite-chloride process"). Izv.AN
Kazakh.SSR Ser.khim. no.1:7-21 '47. (MLBA 9:8)
(Copper--Metallurgy) (Sulfur dioxide)

BOR, Mikhail Zakharovich. Prinimali uchastiye: USPENSKAYA, Ye.P.; BALASHOVA, A.A.; ABRYUTINA, M.S.; ZHUKOV, V.N.; YAKUNINA, N.I.; VOROB'YEV, V.P.; STRUMILIN, S.G., akademik, red.; LISOV, V.Ye., red.; KHOLIN, I.A., red.; GERASIMOVA, Ye.S., tekhn.red.

[Planned balance of the national economy of the U.S.S.R.; practice in working out the balance] Planovyi balans narodnogo khoziaistva SSSR; opyt razrabotki. Pod red. S.G.Strumilina. Moskva, Gosplan-izdat, 1959. 158 p. (MIRA 13:6)

1. Podotdel balansa narodnogo khozyaystva Gosplana SSSR (for Uspenskaya, Balashova, Abryutina, Zhukov, Yakunina, Vorob'yev). (Russia--Economic policy)

KATSENOVICH, A.L., prof.; MADZHIDOV, V.M., dotsent; KADYROV, V.K., assistant;
SHEKHTEL', A.I.; BISEROVA, M.G.; Primali uchastiye: KHAVKINA, Ye.B.;
SADYMENKO, I.I.; VASIL'YEVA, T.L.; ATAYEVA, T.I.; MYATISHKINA, Z.I.;
TUTAYEVA, V.F.; SAIDOV, T.I.; YAKUNINA, N.I.; SOKOLCVA, Ye.G.;
LOPATO, E.A.; ABDULLAYEVA, N.A.; YELIOKUL'SON, L.M.; BAGDASAROVA, K.A.;
DENISOVA, A.P.

Some unsolved problems of influenzal infection from the aspect of
the epidemic of influenza in 1957 and 1959. Med. zhur. Uzb. no.2:
3-8 F '62. (MIRA 15:4)

(INFLUENZA)

YAKUNINA, Natal'ya Mikhaylovna, svinarka; SELEZNEV, N.G., red.;
PUKHIN, L.I., tekhn. red.

[Annual obligations, in eight months] Godovoe obiazatel'stvo -
za 8 mesiatsev. Tula, Tul'skoe knizhmoeizd-vo, 1960. 10 p.
(MIRA 15:1)

1. Sovkhoz "Samarskiy" Kurkinskogo rayona (for Yakunina).
(Swine)

YAKUNINA, P. N.

"Substitution of Heterogenic Peritoneum for Dura Mater Defects in the Clinic"

report submitted at the Republic Session on Traumatology and Orthopedics,
Kishinev, 9-10 January, 1961

So: Zhraookhranenie, Kishinev, No. 2, March-April 1961, pages 61-64

YAKUNINA, T.G., predsedatel'.

At the Dnepropetrovsk Section. Apt.delo no.4:58-59 J1-Ag '53.

(MLRA 6:8)

1. Dnepropetrovskoye otdeleniye Vsesoyuznogo nauchnogo farmatsevticheskogo
obshchestva. (Dnepropetrovsk--Pharmacy) (Pharmacy--Dnepropetrovsk)

YAKUNINA, T. G.

Biological Chemistry

Dissertation: "Data on the Chemical Composition, Anatomical Structure, and Styptic Properties of the Pilose Germander." Cand Pharm Sci, Dnepropetrovsk Pharmaceutical Inst, Dnepropetrovsk, 1953, (Referativnyy Zhurnal--Khimiya, Moscow, No 3, Feb 54)

SO: SUK 213, 20 Sept 1954

YAKUNINA, T.O.

Some data on the chemical composition of the Geneva bugleweed.
Soob.o nauch.rab.chl.VKHO no.4:40-42 '54. (MIRA 10:10)
(Bugleweed)

YAKUNINA, T.G.

Anatomical studies of the Geneva bugle from the Labiatae family.
Apt.delo 5 no.2:50-52 Mr-Ap '56. (MLBA 9:7)

1. Iz kafedry farmatsevticheskoy khimii Dnepropetrovskogo farmatsevticheskogo instituta Ministerstva zdavookhraneniya USSR.
(BUGLE (BOTANY))

YAKYNINA, I. V.

USSR / Pharmacology and Toxicology. Medicinal Plants.

V-8

Abs Jour : Ref. Zhur - Biologiya, No 17, 1958, No. 80651

Author : Baturenko, T. I.; Yakynina, T. G.

Inst : Not given

Title : On the Pharmacology of the Geneva Marsh Elder Plant

Orig Pub : Farmakol. i toksikologiya, 1957, 20, No 2, 52

Abstract : The hemostatic effect of a tincture, infusion, extract, juice and glucoside excreted from the Geneva Marsh Elder (Ajuga genevensis L.) on rabbits and dogs was studied. The extract, juice and glucoside were the most active. The influence of preparations on the contractile activity of an isolated uterus and a uterus in situ was also studied. According to the strength of its effect on guinea pig uterus, glucoside does not yield ergotinine. Glucoside, introduced intravenously in the form of a 2% solution, increases the tonus, amplitude and rate of contractions of the intestine of rabbits.

Card 1/1

*Chair of Pharmacology & Pharmatherapy
Chem. Dnepropetrovsk Pharm Inst.*

POZDNYAKOVA, T.D.; YAKUNINA, T.G.

Use of silicotungstates for the quantitative determination of
codeine. Med.prom. 13 no.6:35-40 Ja '59. (MIRA 12:8)

1. Dnepropetrovskiy meditsinskiy i Pyatigorskiy farmatsevti-
cheskiy institut.

(SILICOTUNGSTATES) (CODEINE)

YAKUNINA, T.I.

YAKUNINA, T.I.; MIKHAYLOVA, O.A.

Rate of infection of rats in the city of Vladivostok with microbes
of the Salmonella group. Izv. Irk. gos. protivochum. inst. 12:

111-113 '54.

(MIRA 10:12)

(VLADIVOSTOK--RATS AS CARRIERS OF DISEASE)

(SALMONELLA)

DEVYATOVA, A.P.; MIKHAYLOVA, O.A.; YAKUBINA, T.I.

Isolation of the causative agent of pseudotuberculosis from
gray and white rats in Vladivostok. Izv.Irk.gos.nauch.-issl.
protivochum.inst. 20:303-305 '59. (MIRA 13:7)
(VLADIVOSTOK--PATEURELLA PSEUDOTUBERCULOSIS)

YAKUNKINA, V.F., inzh.

Dyeing of knit fabrics with indigo and vat dyes.
Nauch.-issled.trudy VNIITP no.2:143-147 '60. (MIRA 16:2)
(Dyes and dyeing—Knit goods)

L 20299-63

EMP(q)/EnT(m)/EMP(B)/BDS AFFTC/ASD JB/JG

ACCESSION NR: AP3006801

S/0078/63/008/009/2103/2105

AUTHORS: Fedorov, P. I.; Yakunina, V. M.

AB

TITLE: The interaction of gallium, sodium, copper (I) and silver chlorides.

SOURCE: Zhurnal neorganicheskoy khimii, v. 8, no. 9, 1963, 2103-2105.

TOPIC TAGS: thermal analysis, gallium, chloride-sodium chloride system, gallium chloride, copper chloride, silver chloride, sodium chloride.

ABSTRACT: The systems $\text{GaCl}_3\text{-NaCl}$, $\text{GaCl}_3\text{-CuCl}$, $\text{GaCl}_3\text{-AgCl}$ have been investigated by thermal analysis and their phase diagrams were constructed. In all three systems, the incongruently-melting compounds were found to be of the common formula MGaCl_4 which form low-melting eutectics with GaCl_3 . All three systems investigated are analogous to the aluminum chloride systems. Orig. art. has: 3 figures and 3 tables.

ASSOCIATION: none

SUBMITTED: 20Oct62.
SUB CODE: CH

DATE ACQ: 30Sep63.
NO REF SOV: 002

ENCL: 00
OTHER: 010

Card 1/1

YAKUNINA, V.V.
BYALOBZHESKIY, G.V., inzhener, ~~YAKUNINA~~, V.V., inzhener.

Foreign machinery for cleaning snow from automobile highways.

Stroi.i dor.mashinostr.no.1:32-35 Ja '57. (MLRA 10:2)

(Snow removal) (Road machinery)

~~YAKUNINA, VALENTINA VLADIMIROVNA~~

BYALOBZHESKIY, Grigoriy Valerianovich, nauchnyy sotrudnik; PRYAKHIN, Viktor Dmitriyevich, nauchnyy sotrudnik; UTKIN, Boris Vasil'yevich, nauchnyy sotrudnik; YAKUNINA, Valentina Vladimirovna, nauchnyy sotrudnik; SERGEYEV, A.F., red.; ZUYEVA, H.K., tekhn.red.

[Winter maintenance of automobile roads] Zimnee sodержanie avtomobil'nykh dorog. Moskva, Nauchno-tekhn.izd-vo avtotransp. lit-ry, 1958. 120 p. (MIRA 11:5)

1. Gosudarstvennyy vnesoyuznyy dorozhnyy nauchno-issledovatel'skiy insitut (for Byalobzheskiy, Prykhin, Utkin, Yakunina)
(Roads--Maintenance and repair)

BYALOBZHESKIY, Grigoriy Valerianovich; YAKUNINA, Valentina Vladimirovna;
MOROZOV, V.I., red.; LAKHMAN, F.Ye., tekhn.red.

[Removing snow from highways] Snegoochistka avtomobil'nykh dorog.
Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transp. i
shosseinykh dorog RSFSR, 1959. 77 p. (MIRA 12:5)
(Snow plows)

BYALOBZHESKIY, G.V.; YAKUNINA, V.V.

Controlling ice on highways in foreign countries. Avt. dor. 22
no.10:29-30 0 '59. (MIRA 13:2)
(Roads--Maintenance and repair) (Ice)

Yakunina, Ye. M.
USSR/Medicine - Veterinary, Paratuberculosis

Card 1/1

Author : Yakunina, Ye. M., Junior Scientific Associate

Title : Paratuberculosis in camels

Periodical : Veterinariya, 31, ⁴¹40-43, Apr 1954

Abstract : Paratuberculous enteritis in camels is a nonfebrile infection characterized by local inflammation of the entire gastrointestinal tract. The disease was first described by M. F. Tsygankov and N. T. Kiseleva in 1950. In February, 1951, the administration of Turkmen NIVOS proposed that a study of this disease be undertaken. The extent of the occurrence of paratuberculosis is not known: the disease is observed in young camels 2-3 years of age; it is not observed in camels under 2 years of age and in mature camels. The disease spreads rather slowly; the route of infection is the gastrointestinal tract. Illustrations.

Institution : Turkmen Scientific-Research Veterinary Experimental Station (NIVOS).

Submitted :

KLYCHEVA, N.Yu.; YAKUNITSKAYA, M.I.

Stratigraphy and facies of the Lower Cretaceous sediments
of the Mangyshlak Peninsula. Trudy VNIGRI no.218:301-341
'63. (MIRA 17:3)

9(4)

SOV/142-58-6-7/20

AUTHOR:

Yakun'kin, A.I.

TITLE:

A Low-Power Generator With Negative Resistance
Using a Point-Contact Transistor Triode (Malo-
moshchmyy generator c otritsatel'nyy soprotivle-
niyem na tochechnom poluprovodnikovom triode)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy - Radiotekh-
nika, 1958, Nr 6, pp 676-684 (USSR)

ABSTRACT:

The article is devoted to an analysis of the operation of a point-contact transistor triode generator circuit. The author finds the normal method of analysis in the critical frequency range, based on the linear theory of self-excitation, insufficient for his purpose, and proposes calculation of the influence of the diffusion capacity of the emitter in order to approximately estimate amplitude and frequency of oscillation. The equivalent circuit of the generator (Figure 1) is discussed and analyzed briefly in a series of formulae expressing circuit parameters. Emitter diffusion capacity is expressed

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SOV/142-58-6-7/20

A Low-Power Generator With Negative Resistance Using a Point-Contact Transistor Triode

as proportional to the value of the DC emitter current (eq 8). Self-excitation conditions are considered, and the equation of the frequency of the generator is derived. Frequency is a function of the circuit parameters and the transistor operating conditions on DC current. Calculated and experimentally obtained results compare well. The author derives a "self-excitation constant" in terms of the ratio of power supply voltage and frequency of oscillation, a ratio which is approximately constant over a wide range, and a function of neither the circuit parameters nor the power supply voltage itself. The constant remains so as long as certain relationships between power supply voltage, emitter current, and collector current are maintained. In evaluating the amplitude of oscillation the author defines two generating conditions of the circuit; condition I with a deter-

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SOV/142-58-6-7/20

A Low-Power Generator With Negative Resistance Using a Point-Contact Transistor Triode

mined value of the self-excitation constant, and continuous variation of the intensity of the oscillations throughout a wide range of power-supply voltage and emitter current changes; and condition II with several maximums of intensity of oscillation with variations in supply voltage, and emitter current, i.e. several regions of generation. A final expression for amplitude of oscillations is obtained (eq 29). The change from condition I to condition II takes place where the curve of frequency variation as a function of emitter current (Figure 8) becomes non-linear. V.L. Patrushev and V.Ya. Krasil'nikov cooperated in this work. This article was recommended by the Kafedra elektrotekhniki i radiotekhniki Saratovskogo gosudarstvennogo universiteta imeni N.G. Chernyshevskogo (Chair

Card 3/4

YAKUNKIN, M.I. (KONKRETNAYA)
SHALOV, Ivan Ivanovich; MELIKHOV, Savva Alekseyevich; MIKHAYLOV, Konstantin
Dmitriyevich; LIPKOV, I.A., retsenzent; BURMISTROV, M.N., retsenzent;
YAKUNKIN, M.I., retsenzent; PLEMYANNIKOV, M.N., redaktor; MEDVEDEV,
L.Ya., tekhnicheskii redaktor

[Planning knit goods factories]Proektirovaniye trikotazhnykh fabrik.
Pod red. I.I.Shalova. Moskva, Gos. nauchno-tekhnicheskoe izd-vo
Ministerstva promyshlennykh tovarov shirokogo potrebleniya SSSR,
1954. 355 p. (MLRA 8:4)
(Textile factories) (Knit goods)

YAKUNKIN, M.T.; AIMAZOVA, M.V.

Dyeing of lavsan in raw stock and in knit cloth. Tekst.prom.22
no.3:71-72 Mr '62. (MIRA 1513)

1. Glavnyy inzh. Tishino-Sokol'nicheskoy chulochnoy fabriki (for Yakunkin). 2. Zaveduyushchiy khimicheskoy laboratoriyey Tishino-Sokol'nicheskoy chulochnoy fabriki (for Almazova).
(Dyes and dyeing--Nylon)

YAKUNKIN, M.T.; ALMAZOVA, M.V.

Dyeing of knit nylon fabrics with procion dyes using the acid method. Tekst. prom. 22 no.7:54-55 J1 '62.

(MIRA 17:1)

1. Glavnyy inzh. Tishino-Sokol'nikeskoy chulochnoy fabriki (for Yakunkin). 2. Zaveduyushchiy khimicheskoy laboratoriyey Tishino-Sokol'nikeskoy chulochnoy fabriki (for Almazova).

YAKUNKIN, M.T., [Iakunkin, M.T.]

Work practices of the Tishino-Sokol'niki Textile Dyeing and
Finishing Factory. Leh. prom. no.2:43-46 Ap-Je '63.
(MIRA 16:7)

(Moscow—Textile industry)

ZOLOYEV, T.M.; IMANAYEV, N.G.; KOBELEVA, V.A.; YAKUPOV, F.M.

Development of the Apsalyamovo water cut petroleum area of
the Tnymazy field. Neft. khoz. 42 no. 3:21-26 Mr '64.
(MIRA 17:7)

MANVELYAN, V.P., inzhener; YAKUNKINA, V.F., inzhener

Dyeing knit fabrics with vat and indigosol dyes. Leg. prom. 15
no. 4:32-33 Ap '55. (MLRA 8:7)

(Dyes and dyeing--Chemistry)

YAKUPOV, Fuat, elektrosvarshchik

Electric welder. Tekh.mol. 28 no.10:37 '60.

(MIRA 13:10)

1. Blagovarskaya remontno-tekhnicheskaya stantsiya Bashkirskoy ASSR;
(Electric welding)

YAKUPOV, G.Ya.

Some results and urgent problems of oil prospecting in Tatarstan.
Izv. Kazan. fil. AN SSSR. Ser. geol. nauk no. 9:39-44 '60.

(MIRA 15:12)

(Tatar A.S.S.R.—PROSPECTING—GEOPHYSICAL METHODS)

YAKUPOV, I.; PETROV, L.A.

Studying the re-ducibility of iron ores with (UTSP-1) equipment
for the hot modeling of the cyclone process. Izv. AN Uz. SSR.
Ser. tekhn. nauk 9 no.3:77-82 '65. (MIRA 18:8)

1. Institut mekhaniki i Vychislitel'nyy tsentr AN UzSSR.

3(0)

AUTHORS: Kamaletdinov, M. A., Kamaletdinov, R. A., SOV/20-122-5-38/56
Yakupov, I. A.

TITLE: The Zhedian Stage on the Western Slope of the South Urals
(Zhedinakiy yarus na zapadnom sklone Yuzhnogo Urals)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 5,
pp 886 - 888 (USSR)

ABSTRACT: Sediments characterized by a Lower Devonian fauna occur on the east limb of the Bashkirskiy anticlinorium, which is located on the western slope of the South Urals. Here, massive, bright, pure limestones were designated as Hercynian. Lower Devonian strata have been described here, but no subdivisions into Stages have previously been made. The only locality at which the Zhedian Stage was cited (Ya.Ya.Vetsler, 1944) is at a Devonian section on Kos'-Yelga Creek, (a tributary of Bol'shoy Ik River). A list of the fossils occurring here is given. The authors arrive at the following conclusions on the basis of the brachiopod fauna: 1) The Zhedian Stage is missing from the sediments of the Kos'-Yelga

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The Zhedian Stage on the Western Slope of the South Urals SOV/20-122-5-30/56

section. 2) The argillites and graywackes assigned to this Stage actually belong to the Eifelian Stage. 3) Limestones underlying these argillites belong to the Coblenzian Stage of the Middle Devonian. The authors discovered in 1957 widely distributed strata, containing a characteristic Zhedian fauna, farther to the north, in the region enclosed by the Belaya and Malyy Ik Rivers. Sections on the Irgizlya River (left tributary of the Belaya River) are described. The Zhedian Stage is 250-300 m thick, and the Coblenzian, 450-550 m. The authors arrive at the conclusion that the Zhedian Stage is represented by Hercynian reef facies between the Belaya and Ik Rivers. A.N.Khodalevich identified the brachiopods and determined their ages. There are no Soviet references.

ASSOCIATION: Sterlitamakskaya geologoposkovaya kontora tresta "Bashvostoknefterazvedka" (Sterlitamak Geological Prospecting Office of the "Bashvostoknefterazvedka" Trust)

Card 2/3

KAMALETDINOV, M.A.; KAMALETDINOV, R.A.; YAKUPOV, I.A.

Geology of lower Devonian sediments in the Belaya-Ik interfluvium
in the Southern Urals. Vop.geol. vost. okr. Rus. platf. 1
IUzh. Urala no.4:128-133 '59. (MIRA 14:6)
(Ural Mountains--Sediments(Geology))

BALAYEV, V.A.; KAMALETDINOV, M.A.; YAKUTOV, I.A.

Recent data on Devonian deposits in the southern part of the cis-Ural area of Bashkiria. Dokl. AN SSSR 135 no.4:917-920 '60.
(MIRA 13:11)

1. Saratovskiy gosudarstvennyy universitet im.N.G.Chernyshevskogo.
Predstavleno akademikom N.M.Strakhovym.
(Nugush Valley--Geology, Stratigraphic)

KOSHLIYAK, V. A.; YAKUPOV, I. A.

Formation of oil and gas pools in the reef zone of the cis-
Ural trough. Geol. nefti i gaza 7 no.4:7-12 Ap '63.
(MIRA 16:4)

1. Trest Bashneftegeofizika i trest Bashzapadnefterazvedka.

(Ural Mountain region—Petroleum geology)
(Ural Mountain region—Gas, Natural—Geology)

KOSHLyak, V.A.; YAKUPOV, I.A.

Formation of water-oil interface in an oil pool. \ Neftegaz.
geol. i geofiz. no. 5:52-57 '63. (MIRA 17:5)

1. Trest "Bashneftegeofizika".

YAKUPOV, T.Sh.

YAKUPOV, T.Sh., inzh.

Improvement of light signalling. Tekst.prom. 17 no.10:55-56
(MIRA 10:12)

0 '57.

(Electric apparatus and appliances)

KUZNETSOV, I.S.; YAKUPOV, T.Sh.

The K-83-2 twisting machine. Biul.tekh.-ekon.inform. no.5:41-43
'58. (MIRA 11:7)

(Textile machinery)

YAKUPOV V. S.

15-57-10-14597

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,
p 205 (USSR)

AUTHOR: Yakupov, V. S.

TITLE: Vertical Electrical Sounding Interpretation in Determin-
ing the Thickness of River Deposits in the Regions of
Low Temperature Permafrost Layer (Opyt interpretatsii
VEZ pri opredelenii moshchnosti rechnykh nanosov v
rayonakh s nizkoy temperaturay vechnomerzlogo sloya)

PERIODICAL: Kolyma, 1955, Nr 12, pp 29-34

ABSTRACT: Bibliographic entry

Card 1/1

24(1), 18(5)

SOV/112-59-5-10214

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 5, p 256 (USSR)

AUTHOR: Yakupov, V. S.

TITLE: Ultrasonics Used in Geological Prospecting

PERIODICAL: Kolyma, 1956, Nr 12, p 41

ABSTRACT: Well-known ultrasonic properties are briefly described. Experiments with using a marine type NEL-3 echo sounder are reported; a direct NEL-3 signal penetrates 10 cm of loosely packed moist sand, or 25 cm of water-soaked sand, or 50 cm of pebble.

Soviet abstractor's note: Propagation of acoustic oscillations in various soils and rocks is being studied at the Institut osnovnykh problem fiziki (Institute of Fundamental Physical Problems), Warsaw. Curves of acoustic attenuation in the above media plotted against frequency are presented in a report of the Institute.

M.G.S.

Card 1/1

YAKUPOV, V.S.

Determining the thickness of recent loose deposits by vertical electric sounding in regions marked by low temperatures of permanently frozen rocks. Trudy Inst. merzl. AN SSSR 15:144-183 '59.
(MIRA 13:3)

(Frozen ground) (Electric prospecting)

YAKUFOV, V. S., Cand Geol-Mineral Sci -- (diss) "Determination of the strength of quaternary deposits by the VEZ method in areas with a low temperature in the permafrost layer," (From the works in the upper Kolyma and Indigirka)," Moscow, 1960, 24 pp (Moscow State Univ im M. V. Lomonosov) (KL, 36-60, 114)

S/703/60/000/286/001/001
E218/D302

AUTHOR: Yakunov, V.S.

TITLE: The vertical current-density component method

SOURCE: Leningrad. Universitet. Uchenyye zapiski. no. 286.
Seriya fizicheskikh i geologicheskikh nauk . no. 12.
1960. Voprosy geofiziki. 59 - 62

TEXT: In this method use is made of a grounded supply line carrying a low-frequency alternating current, and the e.m.f. induced in a vertical linear conductor (typically 4 - 5 m long) is measured. The magnitude of the induced e.m.f. depends on the supply current, its frequency and the mutual inductance between the linear conductor and the conducting half-space. Either one or two vertical detectors may be used. In the latter case a form of bridge may be employed. The method has been used in field measurements, but it is stated that further studies are necessary to throw light on its possibilities and to introduce it into standard practice. L.M. Skorokhodov, V.I. Sedova and B.V. Rogachev are mentioned in the paper. There is 1 figure. ✓

Card 1/1

YAKUPOV, V.S.

Possibilities of electric prospecting in permafrost. Razved. 1
okh. nedr 26 no.10:29-32 0 '60. (MIRA 13:11)

1. Severo-Vostochnoye geolupravleniye.
(Electric prospecting) (Frozen ground)

YAKUPOV, V.S.

Method of the vertical current density component. Uch.zap. LGU
no.286:59-62 '60.

(MIRA 14:3)

(Electric prospecting)

TARNOPOL'SKIY, Ya.I.; YAKUPOVA, N.S.

Results of rehabilitation therapy for veterans of World War II in
Tatar A.S.S.R. (1945-54) Ortop.travm. i prtez. no.5:66-69 S-0 '55.
(MIRA 9:12)

1. Iz Kazanskogo nauchno-issledovatel'skogo instituta ortopedii i
vosstanovitel'noy khirurgii (dir. - zasluzhennyy deyatel' nauki
TASSR prof. L.I.Shulutko)

(REHABILITATION

in Russia, veterans of World War II in Tatar ASSR)

(VETERANS

in Russia, rehabil. of veterans of World War II in
Tatar ASSR)

YAKUPOVA, N.S.

Interprovince conference on accident control in the petroleum
industry. Sov.zdrav. 19 no.12:87-88 '60. (MIRA 14:3)
(PETROLEUM INDUSTRY—ACCIDENTS—CONGRESSES)

STARSHOV, I.M.; YAKUPOVA, R.K.

Pyrolysis of casinghead gas. Nefteper. i neftekhim. no.6:
13-16 '63 (MIRA 17:7)

1. Kazanskiy khimiko-tekhmologicheskii institut imeni Kirova.

YAKURNOV, Ye.

Rapid mining methods of Ivan Borodkin. Mast.ugl.2 no.11:9-11 M '53.
(MLRA 6:11)

1. Nachal'nik normativno-issledovatel'skoy stantsii po stroitel'stvu v
Kizelovskom basseyne. (Coal mines and mining)

YAKURNOV, Ye.

CHEKAREV, V.; YAKURNOV, Ye.

Experience in sinking a skip shaft in the Kizel coal basin. Mast.
ugl. 3 no.9:10-12 S'54. (MLRA 8:2)
(Kizel basin—Shaft sinking)

YAKUSH, A.I.

BUDYAKOV, G.P.; YAKUSH, A.I.

Improvement of dimensional parameters and the interchangeability
in the machinery industry of the U.S.S.R. Standartizatsia
no.5:13-18 S-0 '57 (MIRA 10:11)

(Machinery industry--Standards)

3(7)

SOV/50-60-1-5/20

AUTHOR: Yakush, E. (Budapest, Hungary)

TITLE: Influence of the Vertical Velocity Caused by Friction
on the Distribution of Frontal Precipitations

PERIODICAL: Meteorologiya i gidrologiya, 1960, Nr 1,
pp 24 - 29 (USSR)

ABSTRACT: Recent publications have shown close relationship to exist between vertical motions and precipitations. In particular, reference is made to paper (Ref 1). The friction stratum in which additional components of the vertical velocity originate are particularly investigated here. These components lead to space and time changes of the precipitation quantities. To calculate the vertical velocity caused by friction, the author availed himself of the method by A. N. Mertsalov (Ref 3). To determine the relative change of wind velocity and wind turning angle, a model by Ostin (Austin ?) was utilized here. The horizontal wind divergence at any height z of the friction stratum was calculated from formula (1). When calculating the derivations appearing in (1) two methods shown here were applied. The calculations made over Hungarian territory cover 4 periods: July 19-21, 1953, August

Card 1/3

Influence of the Vertical Velocity Caused by Friction SOV/50-60-1-5/20
on the Distribution of Frontal Precipitations

15-19, 1954, November 10-11, 1954, and May 6-9, 1957. For comparison purposes the vertical velocities were determined according to the ground pressure field by the method of A. F. Dyubyuk (Ref 2). The investigation was extended to the time and space distribution of the vertical velocity (arising in consequence of friction). It is shown that the divergence and eddy caused by friction bring about a motion changing wave-like with space and time in the lower atmospheric stratum. Next, the relationship between the change of the motion field in the friction stratum and the precipitations on the cold front was investigated. It is shown that the amount and territorial distribution of frontal precipitations are not related with the absolute values of vertical velocity caused by friction. Indeed, they are closely related with the time change of this vertical velocity. By taking account of the investigations by B. B. B. (Ref 1) and the results obtained here the following is stated: In the frontal zone, the principal processes of formation of precipitations are determined by the vertical motions of the free atmosphere. At the same time, these processes

Card 2/3

Influence of the Vertical Velocity Caused by Friction SOV/50-60-1-5/20
on the Distribution of Frontal Precipitations

undergo a superposition of vertical velocities caused by ground friction and originating in the ground-near stratum. With the distribution of precipitations in space and time, this effect is the stronger, the more uniform and steadier is the macrosynoptic process forming the precipitations. The results obtained here are based on the consideration of processes over a large space. It is pointed out in this connection that methods ought to be worked out for the forecast of regional precipitation quantities. There are 4 figures and 3 Soviet references.

Card 3/3

YAKUSH, I.

Rural librarian. Rab. 1 sial. 35 no.2:16 P '59.

(MIRA 12:4)

1. Kolkhoz "Vostok" Kormyanskogo rayona, Gomel'skoy oblasti.
(Korma District—Libraries, Rural)

YUNUSOV, A.Yu.; RAKHIMOV, K.; YAKUSH, Z.N.

Some data on perivisceral and parietal digestion in the sheep
intestines. Uzb. biol. zhur. 9 no.5:32-35 '65.

(MIRA 18:10)

1. Uzbekskiy institut krayevoy meditsiny AMN SSSR i Uzbekskiy
nauchno-issledovatel'skiy institut zhivotnovodstva.

YAKUSHA, G. B.

PA 16176

USSR/Electricity - Power, Electric Jan 50
Electrical Equipment

"Analysis of Accidents Occurring in the Electrical Equipment of a Power System," G. B. Yakusha, Engr, 3 pp

"Elek Stants" No 1

Analyzes and tabulates main accidents, disturbances, and susceptible localities in power system composed of four electric power stations and 35-, 110-, and 220-kv overhead network. Concludes automatic devices in electrical part of system reduce liability to accident. Voltage

16176

USSR/Electricity - Power, Electric Jan 50
(Contd)

control, forced excitation, and automatic unloading of system when damage occurs improve operational stability of whole system and individual stations.

16176

YAKUSHA, G. B.

YAKUSHA, G. B. -- "Melting of Ice Crust Formations on Overhead Power Transmission Lines by a 35-110 Kilovolt Electric Current." Sub 6 Oct 52, All-Union Correspondence Polytechnic Inst. (Dissertation for the Degree of Candidate in Technical Sciences.)

SO: VECHERNAYA MOSKVA, January-December 1952

YAKUSHA, G. B., Eng.

Electric Transformers

Switching in a synchronous compensator by a self-synchronization method. Elek. sta 23 no. 8, 1952

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

YAKUSHA, G.B., kandidat tekhnicheskikh nauk.

Practical operating instructions and ratings for electric substations. Elek.
sta. 24 no.10:30-33 0 '53. (MLBA 6:10)
(Electric substations)

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YAKUSHA, G.B., kandidat tekhnicheskikh nauk.

Conference of district engineers and inspectors on operating
problems. Elek.sta. 25 no.1:60-61 Ja '54. (MLRA 7:1)
(Electric power stations)

YAKUSHA, Georgiy Borisovich; SAPAROVA, A.L., redaktor; SKVORTSOV, I.M.,
tekhnicheskii redaktor

[Work with the personnel of electric engineering plants] Rabota
s personalom elektrotekhnicheskikh ustanovok. Izd. 2-oe, perer.
Moskva, Gos. energ. izd-vo, 1956. 151 p. (MLRA 9:10)
(Electric industry workers)

YAKUSHA, G.B., kandidat tekhnicheskikh nauk.

Outages connected with switching in electric installations. Elek.
sta. 27 no.10:39-42 o '56. (MLRA 9:12)
(Electric switchgear)

YAKUSHA, G.B., kandidat tekhnicheskikh nauk.

Some problems of automatic heating processes in electric power
stations. Elek. sta. 28 no.6:2-5 Je '57. (MIRA 10:8)
(Electric power stations)

YAKUSHA, G.B., kand.tekhn.nauk

Principal lines of action for the development of electrification
in the Ukraine in 1959-1965. Elek.sta. 29 no.6:2-6 Ja '58.

(MIRA 11:9)

(Ukraine--Electrification)

YAKUSHA, G.B.[Iakusha, H. B.], kand. tekhn. nauk

Plans for electric power distribution in the Ukrainian S.S.R. in
1959-1965. Visnyk AN URSR 29 no. 6:13-23 Je '58. (MIRA 11:7)
(Ukraine--Electric power distribution)

YAKUSHA, G.B. [IAkusha, H.B.], kand.tekhn.nauk

[Introduction of complete mechanization and automatic control
in electric power stations and electric networks of the Ukraine]

Visnyk AN URSR 29 no.9:9-15 S '58.

(MIRA 11:11)

(Ukraine--Electric power plants)

(Ukraine--Electric networks)

YAKUSHA, G.B., kand. tekhn. nauk.

Combined mechanization and automatization of electric power plants and
electric networks in the Ukraine. Elek. sta. 29 no.10:2-5 0 '58.

(Ukraine--Electric power distribution)

(MIRA 11:11)

YAKUSHA, G.B. [IAkusha, H.B.], kand.tekhn.nauk

Concerning incorrect recommendations for the development of rural electrification in the western provinces of the Ukraine ("Development of rural electrification in the western provinces of the Ukraine" by B.M. IArechyshyn. Reviewed by H.B. IAkusha. Visnyk AN URSR 30 no.1:76-78 Ja '59. (MIRA 12:4)
(Ukraine, Western--Rural electrification)
(IArechyshyn, B.M.)

YAKUSHA, G.B. [Iakusha, H.B.], kand. tekhn. nauk

Tasks of research institutes in the over-all electrification of the
Ukrainian S.S.R. Visnyk AN URSR 30 no.4:45-57 Ap '59.

(MIRA 12:6)

(Ukraine--Electrification)

YAKUSHA, Georgiy Borisovich, kand. tekhn. nauk; BEREZNYUK, V.A., kand. tekhn. nauk, otv. red.; VIADRO, Sh.Ya., red.; MATVIICHUK, O.A., tekhn. red.

[Main trends of technological progress in the industry of the Ukrainian S.S.R.] Osnovni napriamy tekhnichnoho progresu v promyslovosti Ukrain's'koi RSR. Kyiv, 1961. 38 p. (Tovarystvo dlia poshyrennia politychaykh i naukovykh znan' Ukrain's'koi RSR. Ser.7, no.8)

(MIRA 14:11)

(Ukraine—Technology)

YAKUSHA, Georgiy Borisovich; ORLOVSKIY, A.V., prof., otv. red.;
VELIKOKHAT'KO, A.T., red.

[Technical and economic bases of developing electric power
production in the economic regions of the Ukrainian S.S.R.]
Tekhniko-ekonomicheskie osnovy razvitiia elektroenergetiki
ekonomicheskikh raionov Ukrainskoy SSR. Kiev, Naukova dumka,
1965. 251 p. (MIRA 18:5)

BUKHALO, S.M., doktor ekon. nauk, otv. red.; SHEVCHENKO, Ya.A., doktor ekon.nauk, red.; YAKUSHA, G.B., kand. tekhn. nauk, red.; SKLYAR, V.T., kand. khim. nauk, red.; RESHETNYAK, A.A., inzh., red.; Pilyukhanov, L.S., inzh., red.; METLINA, T.I., inzh., red.; VELIKOKHAT'KO, A.T., red.

[Problems of effective use of fuel and power resources (Donets and Dnieper Economic Regions); materials] Voprosy ratsional'nogo ispol'zovaniia toplivno-energeticheskikh resursov (Donetsko-Pridneprovskii ekonomicheskii raion); materialy. Kiev, Naukova dumka, 1964. 200 p. (MIRA 17:12)

1. Nauchno-tekhnicheskaya konferentsiya po voprosam ratsional'nogo ispol'zovaniya toplivno-energeticheskikh resursov. Donetsk, 1962. 2. Institut ekonomiki Gosplana Ukr.SSR (for Shevchenko).

SHCHERBINA, Pavel Semenovich: Prinimal uchastiye YAKUSHA, I.V., inzh..
ZAVARSKIY, A.I., red.; MAKHOVA, N.N., tekhn.red.; GOR'KOVA, Z.D.,
tekhn.red.

[Bee culture] Pchelovodstvo. Izd. 4., perer. i dop. Moskva, Gos.
izd-vo sel'khoz.lit-ry, 1959, 663 p. (MIRA 13:6)
(Bee culture)

YAKUSHCHINA, S.Ye

~~YAKUSHCHINA, S.Ye.~~, KUGUCHEVA, Ye.Ye., POLKOVNIKOV, B.D.

Alkylation of n-butane by propylene at high pressures and temperatures. Dokl. AN SSSR 105 no.1:103-105 N '55. (MLRA 9:3)

1. Predstavleno akademikem A.A. Balandinym.
(Alkylation) (Butane)

RASPOPOV, I.V.; LUKASHOV, G.G.; PLISKANOVSKIY, S.T.; ARTYUKHOV, B.N.;
TARASOV, D.A.; ARIKHBAEV, V.V.; Prinimali uchastiye: ZENYUKOV,
V.P.; NEMTSOV, N.S.; GODLEVSKIY, A.I.; LEVCHENKO, G.F.;
DEGTYAREVA, Z.I.; GORLACH, A.A.; YAKUSHECHKIN, Ye.I.

Intensifying the sintering process by air preheating and by
improving the performance of exhaust fans. Stal' 23 no.8:
679-682 Ag '63. (MIRA 16:9)

1. Zhdanovskiy metallurgicheskiy institut i metallurgicheskiy
zavod "Azovstal'."

(Sintering)

14-57-6-12540

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6,
pp 114-115 (USSR)

AUTHOR: Yakushenko, I. K.

TITLE: An Efficient Method of Planting Forests in Belorussian Sands (Ratsional'nyy metod obleseniya peskov v Belorussii)

PERIODICAL: Les. kh-vo, 1956, Nr 11, pp 37-40

ABSTRACT: The practice of planting pines in Belorussian sands gives better results than can be obtained from their natural propagation. Willows are planted first in the loose sands; next, pines are planted in the spaces between willows. No less than 13,000 trees per hectare should be used in this operation. To increase the survival and productivity of the trees, it is necessary to use organic fertilizer such as a well decomposed granular swamp peat. The article contains tables.

Card 1/1

YAKUSHENKO, I. K.

Yakushenko, I. K. -- "The Forest-Growth Conditions of the Sands of Poles'ye and Principles of Their Afforestation." Acad Sci Belorussian SSR. Inst of Socialist Agriculture. Minsk, 1956. (Dissertation For the Degree of Candidate in Agricultural Sciences).

So: Knizhnaya Letopis', No. 11, 1956, pp 103-114

YAKUSHENKO, Y.
ZAKHAR'YEV, N.I.; OBUKHOVA, Z.D.; CHESHEV, K.S.; YAKUSHENKO, Y.S.

Composition and food value of grasses in main types of mountain
pastures and hay of sown hayfields of Susamyr. Izv. AN Kir. SSR
no.3:43-101 '56. (MLRA 10:4)
(Susamyr--Feeding and feeding stuffs)

ZAKHAR'YEV, N.I.; YAKUSHENKO, Ye.S.; OBUKHOVA, Z.D.; KOTYSHEVA, N.G.

Composition and nutritive value of grasses of the Fergana
Range meadow steppes abounding in the barley *Hordeum bulbosum*.
Izv.AN Kir.SSR no.6:97-111 '58. (MIRA 11:12)
(Fergana Range--Grasses)

ZAKHAR'YEV, N.I., prof.; KOVERGA, L.V.; KOTYSHEVA, N.G.; OLUKHOVA,
Z.D.; YAKUSHENKO, Ye.S.

[Feeds in the Kirghiz S.S.R.; the composition and nutritive value] Korma Kirgizskoi SSR "Khimicheskiy sostav i pitatel'nost'". [By] N.I.Zakhar'ev i dr. Frunze Izd-vo AN Kirg.SSR. Vol.1. [Chemical composition and feed value of grasses in the mountain pastures and hayfields of Fergana, Alay, and Susamyr] Khimicheskii sostav i pitatel'nost' travy gornykh pastbishch i senokosov Fergany, Alaia i Susamyra. 1964. 341 p. (MIRA 17:9)

OBRNZUMOV, Pavel Aleksandrovich; ~~YAKUSHENKOV, A.A.~~, redaktor; SOKOLOVA, Ye.I.,
redaktor izdatel'stva; TIKHONOVA, Ye.A., tekhnicheskii redaktor

[Manual on electric and radio navigation apparatus for ships]
pravochnik po sudovym elektroradionavigatsionnym ustroistvam.
Moskva, Izd-vo "Morskoi transport," 1956. 137 p. (MLRA 10:3)
(Navigation)

YAKUSHENKOV, A., kandidat tekhnicheskikh nauk.

New gyrocompass for the merchant marine. Mor.flot 16 no.8:
9-11 Ag '56. (MIRA 9:10)

1. TSentral'nyy Nauchno-issledovatel'skiy institut morskogo
flota. (Gyrocompass)

~~YAKUSHENKOV, A.A.; TETUYEV, B.A.; MITNIK, V.M.; GROZNAYA, TS.I.~~

Technical and operational characteristics of modern gyrocompasses and
automatic steering gear used on merchant ships. Inform. sbor. TSHIIMF
no.16:3-59 '57. (MIRA 11:6)

(Gyrocompass) (Steering gear)

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Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1960, No. 9, p. 404,
46318

AUTHOR: Yakushenkov, A.A.

TITLE: Using Satellites⁹ for Navigation Purposes

PERIODICAL: Inform. sb. Tsentr. n.-1. in-t morsk. flota, 1958, No. 31, pp. 34-46

TEXT: The author investigates methods of using earth satellites for navigation purposes to determine the geographic coordinates of the ships position in the open seas. The artificial satellite can be supplied with a radio transmitter, the signals of which can be received by the ship's radio station for subsequent conversion, provided the transmitter possesses sufficient power and the frequency range is selected in the most favorable way. Another peculiarity of satellites is the possibility of putting them in any orbit necessary from the navigation viewpoint, just as it is possible to obtain the most favorable period of revolution of the satellite around the earth. In order to use satellites for navigation purposes, the author points out the possible range of periods of revolution of the satellites amounting from 1.7-2 up to 24 hours. Moreover, he

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Using Satellites for Navigation Purposes

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determines the distance range of the corresponding orbits from 1,500-2,000 km up to 40,000 km. Theoretically, navigational bearings with the aid of artificial earth satellites can be effected by three methods, which are subdivided into visual-astronomical, radio-astronomical and radionavigation ones. The author presents the characteristics of these methods. There are 4 figures and 3 references. ✓

P.S.A.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

STRUMPE, Petr Ivanovich, kand.tekhn.nauk; YAKUSHENKOV, Andrey Andreyevich, kand.tekhn.nauk; SYROMYATNIKOV, Viktor Fedorovich, kand.tekhn.nauk; RAPOPORT, Leonid Il'ich, kand.tekhn.nauk; MELIKSHIN, Georgiy Aleksandrovich, kand.tekhn.nauk; MIROSHNICHENKO, Il'ya Petrovich, kand.tekhn.nauk; ARAKHOV, Vladimir Mikhaylovich, inzh.; SKOMOROVSKIY, Roatislav Vsevolodovich, kand.tekhn.nauk; PESOCHINSKIY, Viktor Nikolayevich, kand.tekhn.nauk; MELIDOVA, E.S., red.; TIKHONOVA, Ye.A., tekhn.red.

[Over-all mechanization and automatization in the merchant marine]
Kompleksnaya mekhanizatsiya i avtomatizatsiya na morskoy transport.
Pod obshchey red. P.I.Strumpe. Moskva, Izd-vo "Morskoy transport,"
1959. 95 p. (MIRA 13:5)

(Merchant marine--Equipment and supplies)

(Cargo handling--Equipment and supplies)

(Automatic control)

STRUMPE, P.I., kand.tekhn.nauk; SYROMYATNIKOV, V.F., kand.tekhn.nauk,
nauchnyy red.; YAKUSHENKOV, A.A., kand.tekhn.nauk, nauchnyy red.;
POMICHEV, A.G., spetsred.; KOTLYAKOVA, O.I., tekhn.red.

[Over-all automatic control on seagoing ships] Kompleksnaya
avtomatizatsiya morskikh sudov. Pod obshchei red. P.I.Strumpe.
Leningrad, Izd-vo "Morskoi flot," 1960. 178 p.

(MIRA 14:4)

1. Russia (1923- U.S.S.R.) Ministerstvo morskogo flota.
2. Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota.
(for Strumpe, Syromyatnikov, Yakushenkov).
(Ship handling) (Automatic control)